



Hydroflex

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Waterproof protective coating

Hydroflex is a highly elastic, crack bridging, UV stable, tropical grade, waterproof and protective coating. Cementitious based with a synthetic resin additive.

Fields of application

- Under tile waterproofing, bathrooms and balconies
- Parapet walls, flower boxes and fish ponds
- Corrosion protection, damp and waterproofing to:
 - Beams & columns
 - Concrete ceilings and walls
 - Bridges, silos and concrete towers
 - Most civil structures
 - Farm dams and reservoirs.
- Planter boxes

Features

- Crack bridging capability up to 1,2 mm @ 20°C
- High flexibility and long term durability
- Resistant to carbonation and the ingress of chloride ions
- Protects reinforced concrete against corrosion (concrete repair systems)
- 100 % waterproof but permeable to water vapour
- Excellent adhesion to most substrates
- Weather resistant and UV stable in tropical conditions
- Available in concrete grey
- Safe for contact with food and potable water
- Self priming

Technical data

Properties	Details
Packaging	15 kg kit, A+B components (A=4,8 kg; B=10,2 kg)
Curing time	touch dry 30 minutes at 25°C ambient, full cure = 7 days
Specific gravity	1,7 kg per litre
Coverage	1,5 - 2 kg/m ² /mm thickness
DFT	1 mm per coat unreinforced
Colour	Concrete grey
Toxicity	Non toxic when mixed and fully cured
Shelf life	12 months from date of manufacture if stored unopened in original packaging in dry, frost and moisture free conditions.
Bond strength as per EN 1542	0,9 N/mm ² @ 20°C
Cracking bridging as per ASTM C836	1,2 mm @ 20°C
Resistance to water pressure as per DIN 1048	Positive: 1,2 MPA Negative: 0,5 MPA

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

continued overleaf...

Disclaimer: The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subject to change without prior notice.

Available from Waterproofing Centres countrywide

www.waterproofingcentre.co.za

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Application

Surface preparation

- A clean, sound structure is required. Remove all oils, stains and imperfections.
- It may be necessary to high pressure clean @ min. 120 bar pressure and thoroughly rinse the surface and/or skim the substrate with **Lanko Rep FC**.
- The substrate must be dampened prior to application, leave no standing water. Do not dampen between coats; remove any condensation water with a clean cloth.
- No additional priming is required on sound cement based substrates.
- Apply the product with a painter's block brush or quality mohair roller - can be spray applied.
- Apply two coats of Hydroflex, waiting for the first coat to set-up before applying the second, so as not to draw off the first; between 4 - 24 hours is suitable.
- Each coat should be applied at a rate of 1,5 kg/m² minimum.
- Apply the first coat in a vertical motion and the second horizontally in order to effectively eliminate the possibility of pinholes.
- The total thickness of the coating should not exceed 2 mm in thickness.
- The final coat can be smoothed using a putty knife or a steel trowel.
- Mortar must be used within 20 minutes of preparation (25°C)

Mixing

- Pour most of the liquid part into a suitable sized container. Slowly add all of the powder whilst stirring with an electric paddle mixer.
- Mix until a homogenous slurry is obtained. The balance of the liquid can be then added to adjust the consistency of the final product, especially when applying to overhead or vertical surfaces.
- To obtain a more fluid consistency, add water to a maximum of 150 ml to the mix.
- Allow to stand for approximately 3 minutes for applying.

Recommendations

- If coating of substrates showing evidence of micro cracking or which are likely to be subject to dimensional changes, it is advisable to reinforce the first coat of mortar with a product soaked open cell cloth, then apply the second coat as above.
- High traffic areas should be protected against abrasion.
- Hydroflex can be over-tiled using a high quality tile bonding agent prior to applying the tile adhesive.
- Clean tools with water immediately after use.
- Substrate temperature range for use: 5°C - 35°C.
- Water tanks and ponds should be thoroughly rinsed after a 7-day cure period before filling.
- Do not expose the product to direct sunlight, wind, frost or rain within 24 hours of application. Apply Chryso acrylic curing compound if necessary.

Health and Safety

Hydroflex powder is irritating to eyes, respiratory system and skin. Avoid inhalation of dust and wear suitable respiratory protective equipment. Hydroflex liquid is not classified as dangerous. Hydroflex when mixed becomes highly alkaline. Suitable protective equipment.

For both components and mixed material avoid contact with skin and eyes. In cases of skin or eye contact, rinse immediately with plenty and water and seek medical advice.

Cleaning

Clean all tools, rollers and brushes immediately after use with clean water.

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